

# Phil Hawksley's BM Bikes

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## BMW R71 Specifications

|                            |                 |
|----------------------------|-----------------|
| <b>Start of Production</b> | <b>1938</b>     |
| <b>End of Production</b>   | <b>1941</b>     |
| <b>Numbers Produced</b>    | <b>3,458</b>    |
| <b>Price</b>               | <b>1,595 RM</b> |



### Engine

|                           |                                    |
|---------------------------|------------------------------------|
| Internal Designation      | 271/1                              |
| Motor Type                | Four-stroke two cylinder flat twin |
| Bore x Stroke             | 78 x 78 mm (3.07 x 3.07 in)        |
| Displacement              | 746 cc                             |
| Max Power                 | 22 hp at 4,600 rpm                 |
| Compression Ratio         | 5.5 : 1                            |
| Valves                    | SV                                 |
| Carburation System        | 2 x carburettor type Graetzin G 24 |
| Engine Lubricating System | Forced feed lubrication            |
| Oil Pump                  | Gear pump                          |

### Power Transmission

|                  |   |
|------------------|---|
| Clutch           | Single plate, dry   |
| Number of Gears  | 4   |
| Shifting         | Foot switching (+ auxiliary manual lever), manual gear lever on request |
| Gearbox Ratios   | 3.6 / 2.28 / 1.7 / 1.3  |
| Rear Wheel Ratio | 1 : 3.6 (1 : 3.89 with sidecar)   |
| Bevel/Crownwheel | 10 / 36 teeth (9 / 35 with sidecar)                                     |

### Electrical System

|                 |                          |
|-----------------|--------------------------|
| Ignition System | Battery ignition         |
| Generator       | Bosch RD 50/6 2800 RS 17 |
| Spark Plugs     | Bosch W 175 T1           |

### Chassis

|                        |                               |
|------------------------|-------------------------------|
| Designation            | 251/1                         |
| Frame                  | Twin loop steel tubular frame |
| Front wheel suspension | Telescopic fork               |
| Rear wheel suspension  | Telescopic suspension         |
| Wheel rims             | 3 x 19 deep bed               |
| Tyres, Front           | 3.5 x 19                      |

|               |                                      |
|---------------|--------------------------------------|
| Tyres, Rear   | 3.5 x 19                             |
| Brakes, Front | Drum brake 200 mm / 7.87 in diameter |
| Brakes, Rear  | Drum brake 200 mm / 7.87 in diameter |

### **Dimensions/Weights**

|                               |  |
|-------------------------------|--|
| Length x Width x Height       | 2130 x 815 x 960 mm (83.85 x 32.08 x 37.79 in)                     |
| Wheel Base                    | 1400 mm / 55.11 in   |
| Fuel Tank Capacity            | 14 litres / 3.07 gal / 3.69 gal US                                 |
| Unladen Weight with Full Tank | 187 Kg   |
| Load Rating                   | 210 Kg / 462 lb (max. overall weight with sidecar 500Kg / 1101 lb) |
| Fuel Consumption              | Approx. 4.5 litres per 100 Km                                      |
| Oil Consumption               | Approx. 1 litre per 1,000 Km                                       |
| Top Speed                     | 125 Kph (with original sidecar, 105 Kph)                           |